PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

International application No. International filing date (d	lay/month/year) Priority date (day/month/year)						
PCT/SE2004/002003 22-12-2004	23-12-2003						
International Patent Classification (IPC) or national classification and	IPC						
See Supplemental Box	, ,						
A. H.							
Applicant							
ABB Research Ltd et al							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 6 sheets, including this cover sheet.							
3. This report is also accompanied by ANNEXES, comprising:							
a. (sent to the applicant and to the International Bu	ureau) a total of sheets, as follows:						
·	drawings which have been amended and are the basis of this report						
and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the							
Supplemental Box.							
1	(indicate type and number of electronic carrier(s))						
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relating to the following item	ns:						
Box No. I Basis of the report							
Box No. II Priority							
Box No. III Non-establishment of opinion with	regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 3 applicability; citations and explana	35(2) with regard to novelty, inventive step or industrial stions supporting such statement						
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international	application						
Box No. VIII Certain observations on the interna	ational application						
Date of submission of the demand	Date of completion of this report						
00.06.0005	12 00 0006						
	13-02-2006						
Name and mailing address of the IPEA/SE Patent- och registreringsverket	Authorized officer						
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Form PCT/IPEA/409 (cover sheet) (April 2005)

International application No.

	PCT/SE2004/002003				
Supplemental Box					
In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet					
INTERNATIONAL PATENT CLASSIFICATION (IPC):					
H02H 3/02 (2006.01)					
	•				

International application No.

PCT/SE2004/002003

Box	No. I	Basis of the report		
1. With regard to the language, this report is based on:				
	\boxtimes	the international application in the language in which it was filed		
		a translation of the international application into, which is the language of a translation furnished for the purposes of:		
		international search (Rules 12.3(a) and 23.1(b))		
		publication of the international application (Rule 12.4(a))		
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))		
2.	furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been the to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" re not annexed to this report):		
	\boxtimes	the international application as originally filed/furnished		
		the description:		
		pages as originally filed/furnished		
		pages* received by this Authority on		
		pages* received by this Authority on		
		the claims:		
		pages as originally filed/furnished		
		pages* as amended (together with any statement) under Article 19		
		pages* received by this Authority on		
		pages* received by this Authority on		
		the drawings:		
		pages as originally filed/furnished		
		pages* received by this Authority on		
	 1	pages* received by this Authority on		
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.		
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to the sequence listing (specify):		
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).		
		the description, pages		
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to the sequence listing (specify):		
*	If item	4 applies, some or all of those sheets may be marked "superseded."		

International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 2-4, 12-14 Claims 1, 5-11 Inventive step (IS) Claims YES Claims 1-14 Industrial applicability (IA) Claims 1-14___ YES Claims

2. Citations and explanations (Rule 70.7)

The claimed invention relates to controlling a power network during a fault condition. The object of the invention is to avoid that protecting devices are unnecessarily tripped. This is accomplished by a delay caused by a voltage raising means.

Documents cite in the International Search Report:

D1: US 5867356 A D2: EP 0474186 A2

D1 discloses a current limiting system, for example used for power transmission (column 1, lines 6-11). The system comprises two branches, one comprising a main switch (16) and the other comprising a current limiting element (18) and a switch (20). A control unit (27) controls the main switch (16), as well as the switch (20), as disclosed in claim 1. The control unit may be implemented as a suitably programmed computer (column 4, lines 8-13).

D2 shows a system comprising a series switch (2) and parallel connection of a circuit breaker (1), preferably implemented as a GTO-thyristor, a current limiting impedance (4) and a voltage limiting element (5) (fig. 1, column 5, line 15 - column 6, line 21).

The invention according to independent claims 1, 6 and 10 is known from D1. The invention according to claims 5, 7-9 and 11 is also known from D1.

.../...

International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

The further details added in claims 2-4 and 12-14 are not explicitly mentioned in D1, but since these additions concern well known circuit elements, which are used for their usual purposes, without accomplishing any special technical effect, the invention according to claims 2-4 and 11-14 is not considered to involve an inventive step.

The invention according to claims 1 and 5-11 is not novel. The invention according to claims 2-4 and 12-14 is not considered to involve an inventive step. The invention according to claims 1-14 is industrially applicable.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 12 refers to a method according to claims 8-9. These claims do not concern a method. However, claims 10-11 define a method. It is assumed that claim 12 actually should refer to these claims. The same line of reasoning should also be applied on claim 14.

Form PCT/IPEA/409 (Box No. VIII) (April 2005)